



2024 Cattlemen's Quiz - Intermediate Division

You have 60 minutes to complete this quiz. Questions 31 through 35 are tiebreaker questions. Further ties will be broken by order of finish.

For each question, choose the best answer.

1. Fresh, uncooked ground beef can be safely stored in the refrigerator for:
 - a. 1-2 days
 - b. 3-6 days
 - c. 7-10 days
 - d. up to 2 weeks
2. Which product is the best choice for treating foot rot?
 - a. Tetracycline
 - b. Probiotics
 - c. Mineral oil
 - d. Ivomec
3. Which disease is a protozoan parasite whose clinical symptoms include acute diarrhea with or without blood, straining, rough coat, and severe weight loss and is primarily a disease of young animals?
 - a. Acidosis
 - b. Coccidiosis
 - c. Trichomoniasis
 - d. Brucellosis
4. The American Simmental Association is headquartered in:
 - a. Bozeman, Montana
 - b. Oklahoma City, Oklahoma
 - c. Fort Worth, Texas
 - d. Kansas City, Missouri
5. What length needle is recommended for subcutaneous injections?
 - a. 3/4"
 - b. 1 1/2"
 - c. 2"
 - d. 3"
6. A productive cow has a calving interval of ____ days throughout her lifetime.
 - a. 205
 - b. 283
 - c. 300
 - d. 365
7. Pricing cattle on a grade and yield basis is referred to as:
 - a. Grid pricing

- b. Dressed weight pricing
- c. Live cattle pricing
- d. Terminal pricing

8. Which method is not used for a DNA sampling by Neogen GeneSeek?

- a. Saliva
- b. Tissue
- c. Hair
- d. Blood

9. Which animal would produce a purebred Simbrah when mated to a 1/4 Simmental x 3/4 Brahman animal?

- a. Purebred Brahman
- b. Purebred Simmental
- c. 1/2 Simmental x 1/2 Brahman
- d. 3/4 Simmental x 1/4 Brahman

10. Refer to the image to the right. What is this tool used for?

- a. Fencing
- b. Castration
- c. Tissue sampling
- d. Hoof trimming



11. While all vaccines should be stored according to their labels, most are safely stored at:

- a. 0° F or colder (freezer temperature)
- b. 35° to 45° F (refrigerator temperature)
- c. 65° to 75° F (room temperature)
- d. Most vaccines are freeze dried and can be stored anywhere until they are reconstituted.

12. Who is the USDA's Secretary of Agriculture?

- a. Sonny Perdue
- b. Mike Pence
- c. Sid Miller
- d. Tom Vilsack

13. What is the year-letter designation for 2020?

- a. G
- b. H
- c. I
- d. J

14. _____ is a chronic disease of profuse, watery diarrhea and weight loss or "wasting" in adult cattle caused by the bacterium *Mycobacterium avium* subsp. *Paratuberculosis*.

- a. Blackleg
- b. Johne's
- c. Acidosis
- d. Bovine Viral Diarrhea

15. What term refers to the superiority of a crossbred animal as compared to the average of its straight-bred parents?

- a. Hybridity
- b. Heredity
- c. Heterosis
- d. Heritability

16. What does it mean to feed a hot ration?
- Feeding a ration to prepare your cattle for increased temperatures and/or humidity levels
 - Feeding more protein and/or energy than a standard ration contains
 - Feeding a higher amount of total feed than usual
 - Feeding a ration that is highly fermentable and is therefore a warmer temperature than most feed mixes
17. You successfully bred your Purebred Simmental show heifer on April 27. Approximately when should you expect her to calve?
- January 6
 - January 28
 - February 6
 - February 28
18. How should the vast majority of heat synchronization products be administered?
- Intravaginally
 - Subcutaneous injection
 - Intramuscular injection
 - Intravenous injection
19. What is the name of the structure that connects ovaries to the uterus?
- Cervix
 - Fallopian tubes
 - Vulva
 - Corpus Luteum
20. When thawing semen for use in artificial insemination, the water in your thaw cup should be approximately:
- 80° F
 - 85° F
 - 95° F
 - 100° F
21. Which factor is not used to determine USDA Yield Grade?
- Backfat
 - Age
 - Ribeye area
 - Kidney, pelvic, and heart fat
22. What are the two primary types of cattle vaccine?
- Intravenous and Intranasal
 - 5-Way and 7-Way
 - Respiratory and Clostridial
 - Modified Live and Killed
23. Which of the following minerals is most commonly deficient in cattle diets and should be supplemented continuously?
- Calcium
 - Iron
 - Magnesium
 - Sodium

24. Which segment of the beef industry is classified as a Concentrated Animal Feeding Operation?
- Seedstock
 - Feeder
 - Stocker
 - Packer
25. What is not an advantage of the Simbrah breed vs. Simmental?
- Heat dissipation
 - Insect Resistance
 - Marbling
 - Longevity
26. Which hormone do the products Lutalyse and Estrumate synthesize?
- Prostaglandin F_{2α}
 - Progesterone
 - Estrogen
 - GnRH
27. What is the average feed conversion ratio for beef cattle on feed?
- 4:1
 - 6:1
 - 8:1
 - 10:1
28. Red coat color is dominant to black coat color.
- True
 - False
 - They are Co-dominant
29. Most beef sold in the United States comes from cattle that are:
- Certified Angus Beef®
 - USDA Certified Organic
 - grain finished
 - grass finished
30. For optimal conception rates, how long after the first signs of standing heat should a female be bred when using sexed semen?
- 6 to 12 hours
 - 9 to 15 hours
 - 12 to 18 hours
 - 18 to 24 hours

Tie Breaker Questions

31. A thorough replacement heifer breeding soundness exam includes:
- a physical examination and a reproductive tract score.
 - a physical examination, a reproductive tract score, and a pelvic area measurement.
 - a physical examination, a reproductive tract score, a pelvic area measurement, and a teat placement score.
 - None of the above. There are no established BSE protocols for replacement heifers.

32. The official placing on a class of SimAngus™ Replacement Heifers is 3-1-2-4 with cuts of 2-3-4. You placed the class 3-4-2-1. What is your score?
- a. 43
 - b. 40
 - c. 39
 - d. 36
33. Using oocyte pick-up (OPU) technology, how often can a donor cow be collected for IVF?
- a. Twice per week
 - b. Weekly
 - c. Every two weeks
 - d. Every 28-40 days
34. Coat color in cattle is considered a _____ trait.
- a. Congenital
 - b. Additive
 - c. Qualitative
 - d. Quantitative
35. What symbiotic relationship is described as one organism benefitting from the relationship at the expense of the other?
- a. Mutualism
 - b. Commensalism
 - c. Parasitism
 - d. Ectosymbiosis